

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

5 **Listing of Claims:**

Claim 1 (currently amended) A non-volatile memory cell, comprising:

a substrate, the substrate comprising a first region and a second region;

a plurality of isolation structures positioned on the substrate, the isolation structures comprising a first isolation structure positioned in the first region and a second isolation
10 structure surrounding the second region;

a control gate positioned on the first isolation structure in the first region;

a first insulating layer positioned on the control gate;

a second insulating layer positioned on the portion of the substrate in the second
region; and

15 a floating gate positioned on the first insulating layer and the second insulating layer,
wherein the floating gate comprises an opening positioned above the first insulating layer,
and the opening is used to form a wire therein to connect to the control gate.

20 Claim 2 (original) The non-volatile memory cell of claim 1, wherein the portion of the
floating gate positioned in the first region is stacked above the control gate.

Claim 3 (cancelled)

25 Claim 4 (original) The non-volatile memory cell of claim 1, wherein the substrate
comprises a well of a first conductivity type positioned in the first region and the second
region.

Claim 5 (original) The non-volatile memory cell of claim 1, wherein the substrate

comprises at least a doping region of a second conductivity type positioned beneath the second insulating layer.

5 Claim 6 (original) The non-volatile memory cell of claim 1, wherein the isolation structures comprise field oxide layers or shallow trench isolation structures.

10 Claim 7 (original) The non-volatile memory cell of claim 1, wherein the first insulating layer comprises a composite layer composed of an oxide layer, a silicon nitride layer, and a silicon oxide layer.

Claim 8 (original) The non-volatile memory cell of claim 1, wherein the second insulating layer comprises a tunneling oxide layer.

15 Claims 9-20 (cancelled)